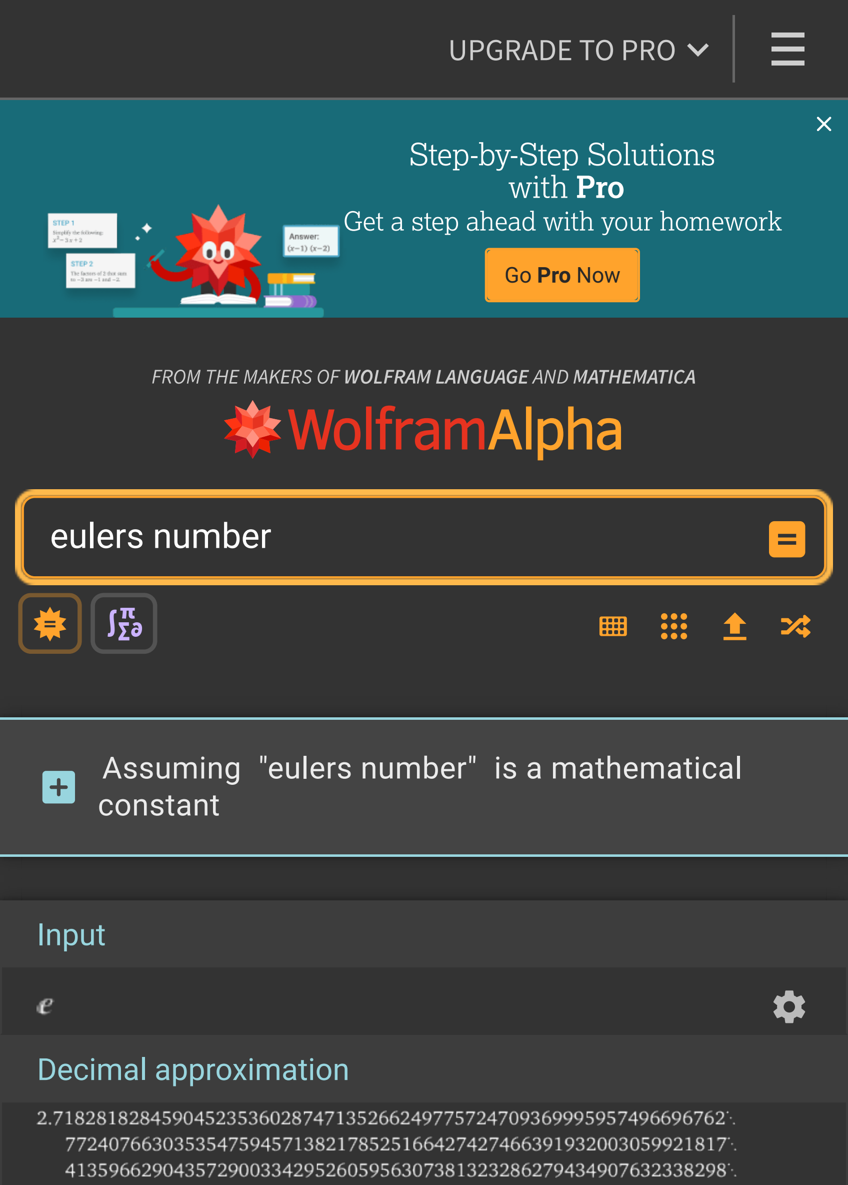

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FROM THE MAKERS OF **WOLFRAM LANGUAGE** AND **MATHEMATICA**

WolframAlpha

eulers number

Assuming "eulers number" is a mathematical constant

Input

e

Decimal approximation

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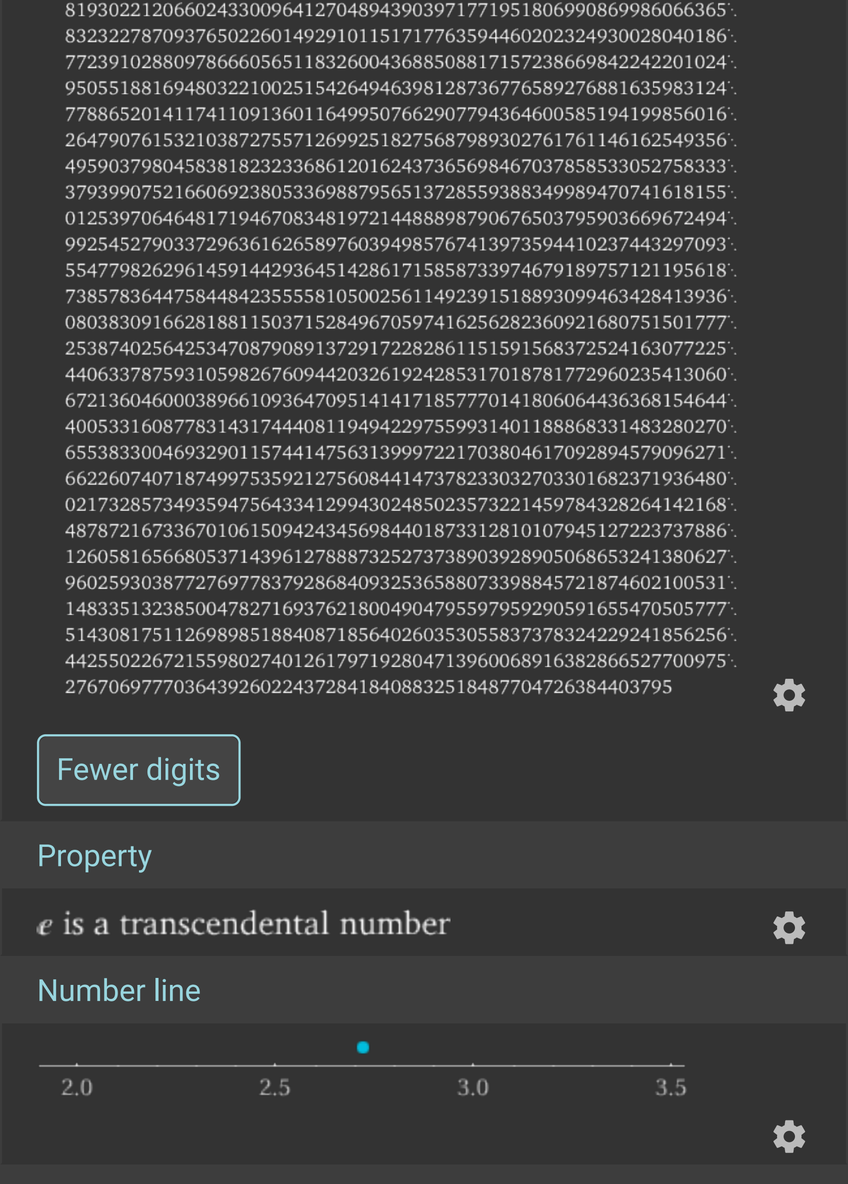

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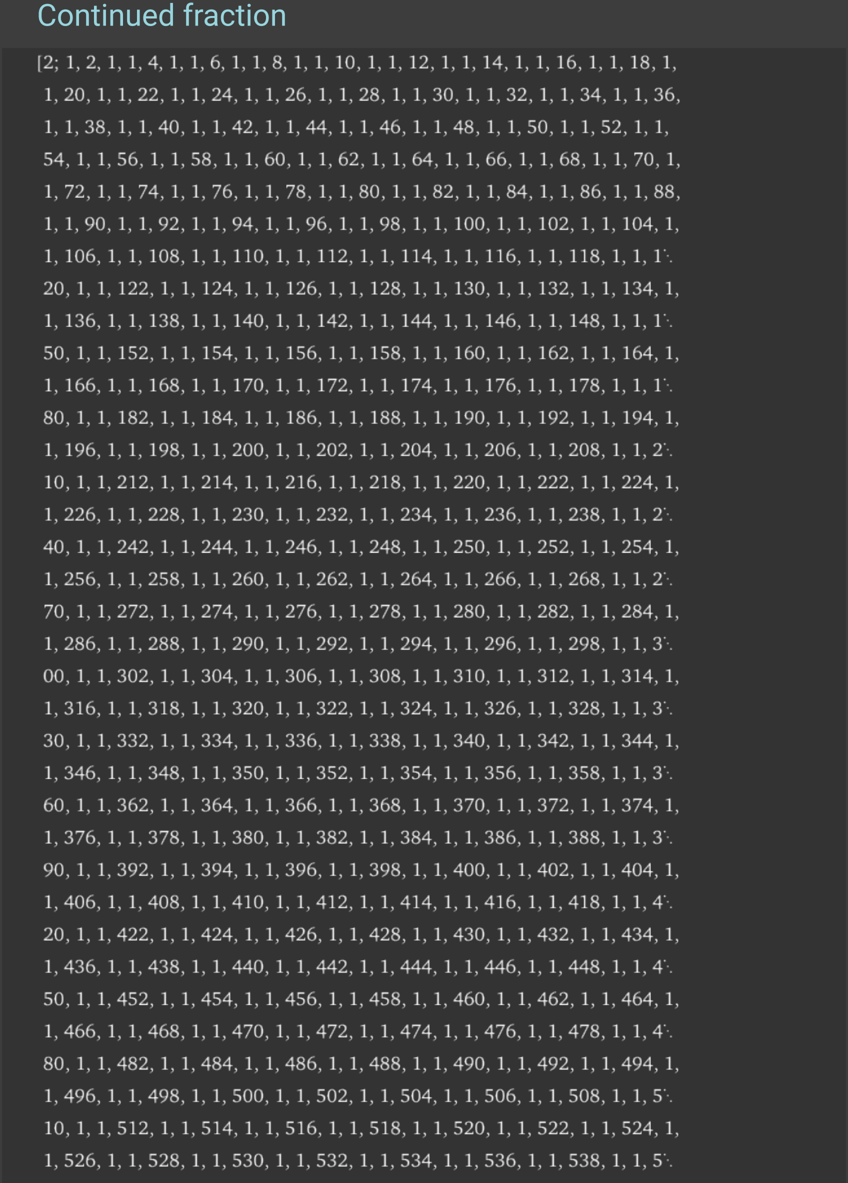
Property

e is a transcendental number

Number line



Continued fraction

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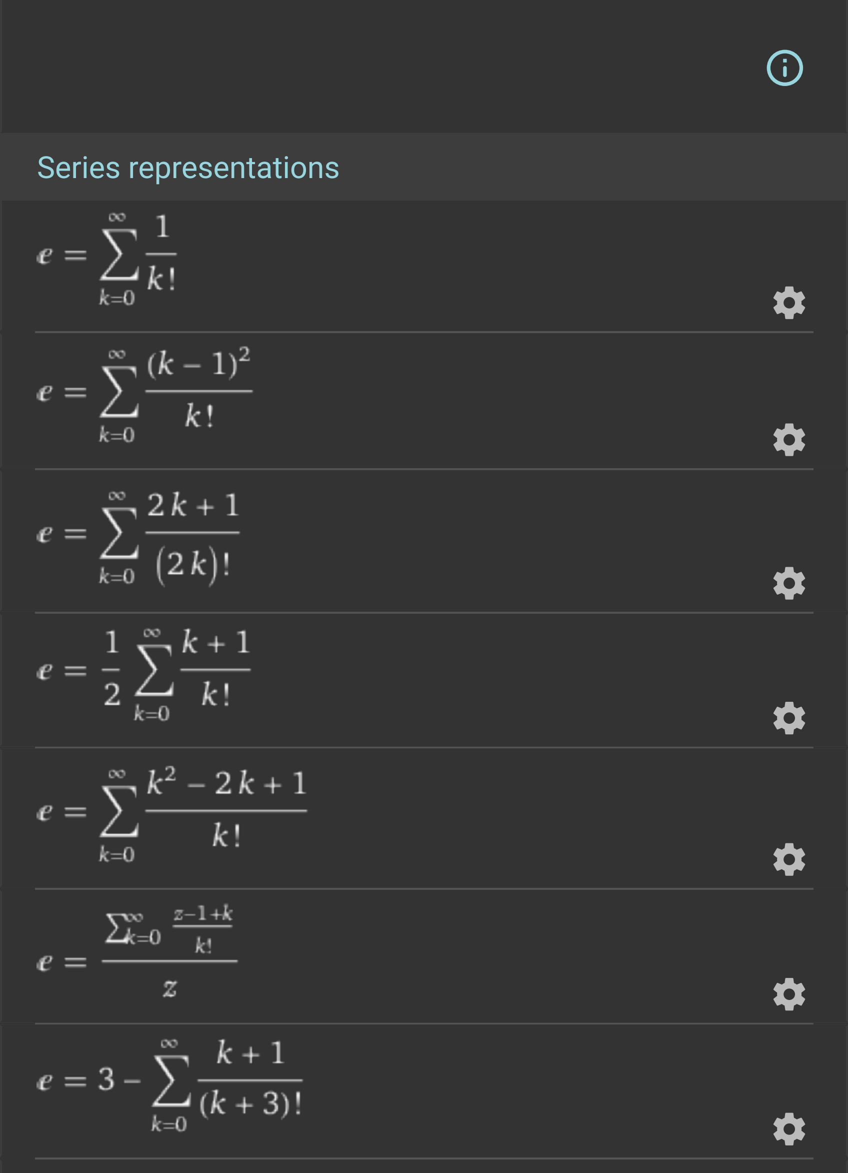
Fewer terms

Fraction form

Alternative representation

$e = e^z$ for $z = 1$



Series representations

$$e = \sum_{k=0}^{\infty} \frac{1}{k!}$$

$$e = \sum_{k=0}^{\infty} \frac{(k-1)^2}{k!}$$

$$e = \sum_{k=0}^{\infty} \frac{2k+1}{(2k)!}$$

$$e = \frac{1}{2} \sum_{k=0}^{\infty} \frac{k+1}{k!}$$

$$e = \sum_{k=0}^{\infty} \frac{k^2-2k+1}{k!}$$

$$e = \frac{\sum_{k=0}^{\infty} \frac{z-1+k}{k!}}{z}$$

$$e = 3 - \sum_{k=0}^{\infty} \frac{k+1}{(k+3)!}$$

$$e = \sum_{k=0}^{\infty} \frac{(3\,k)^2 + 1}{(3\,k)!}$$

Less

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roll 271828 with three 314159-sided dice =

what day of the week was Euler born =

2.71828 =

193/71 =

e% of e

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